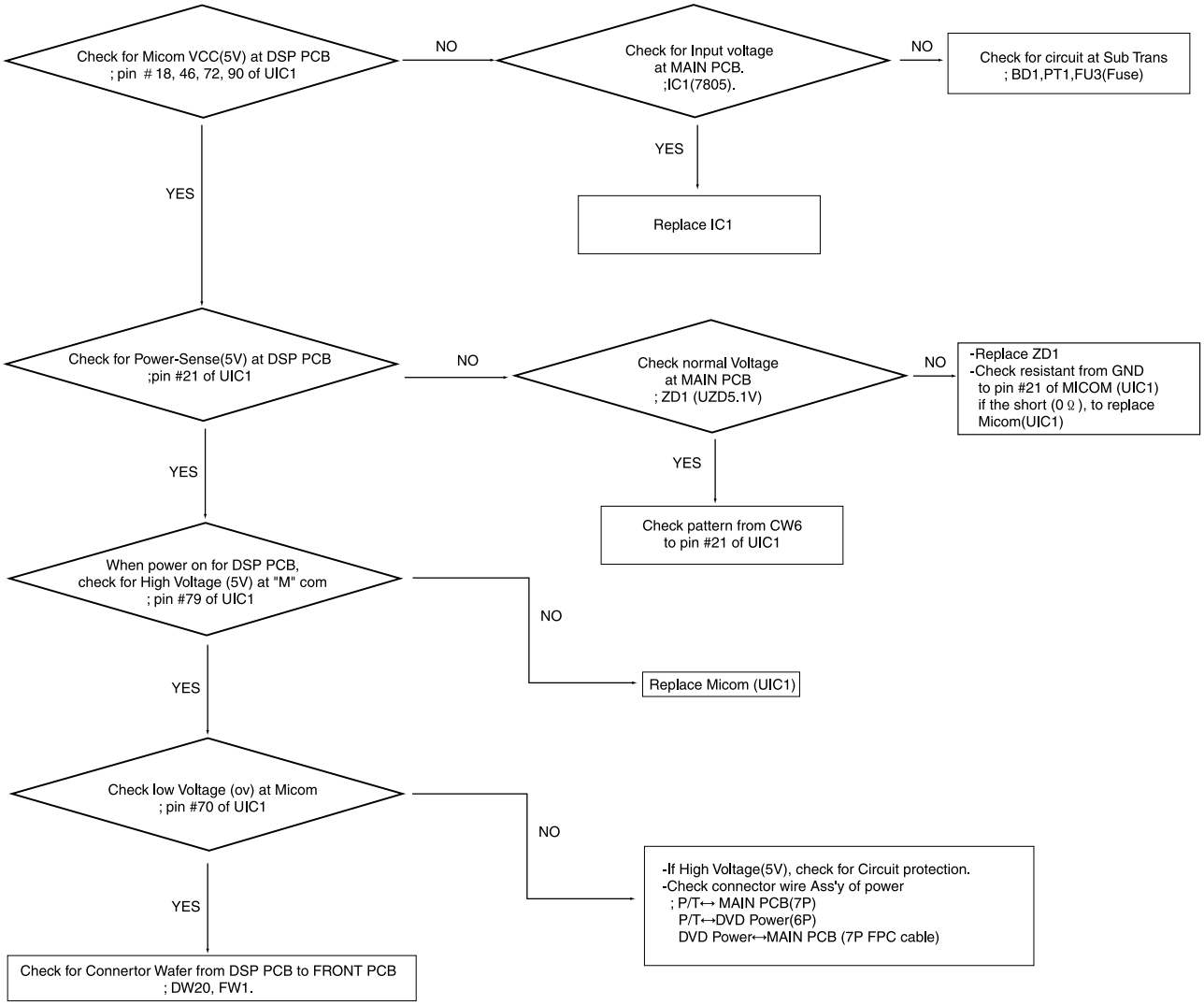
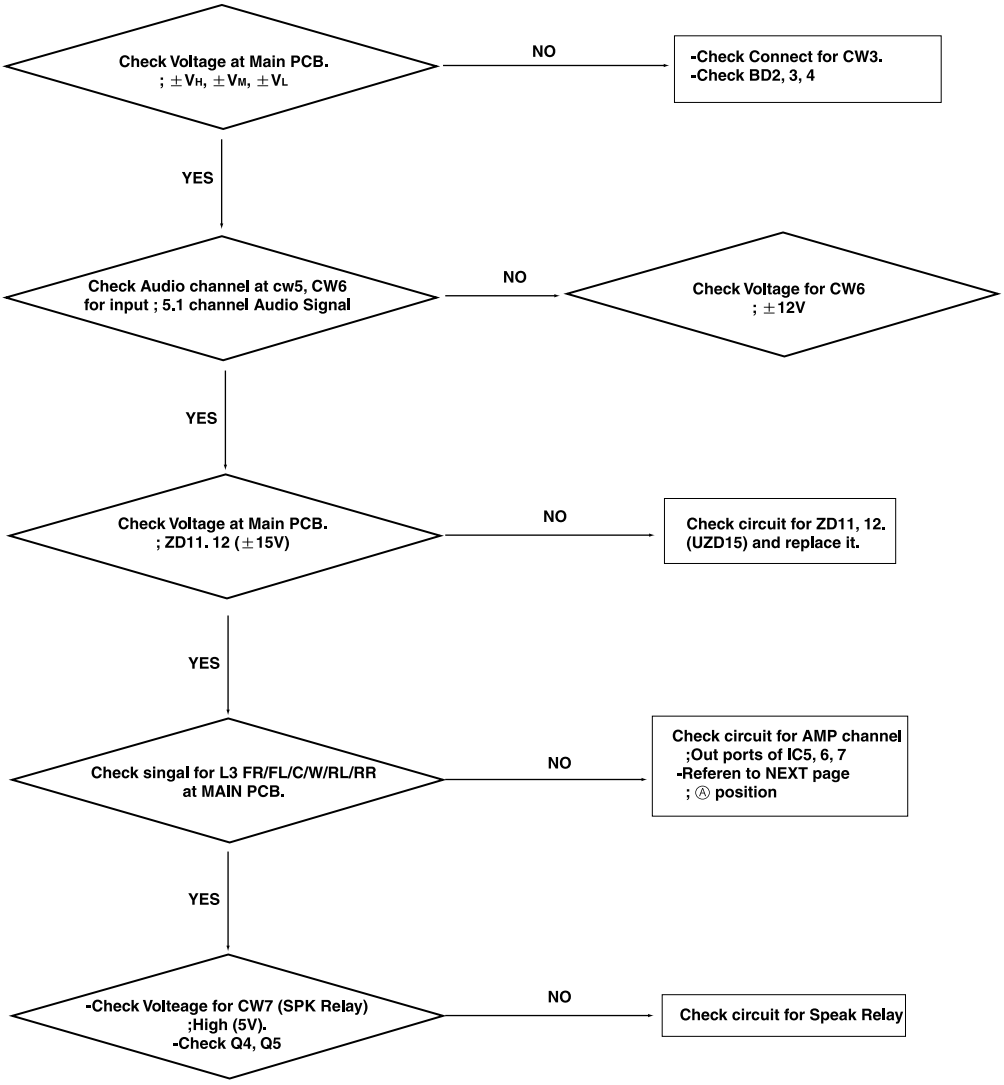
9. TroubleShooting

9-1 Main

1. Power

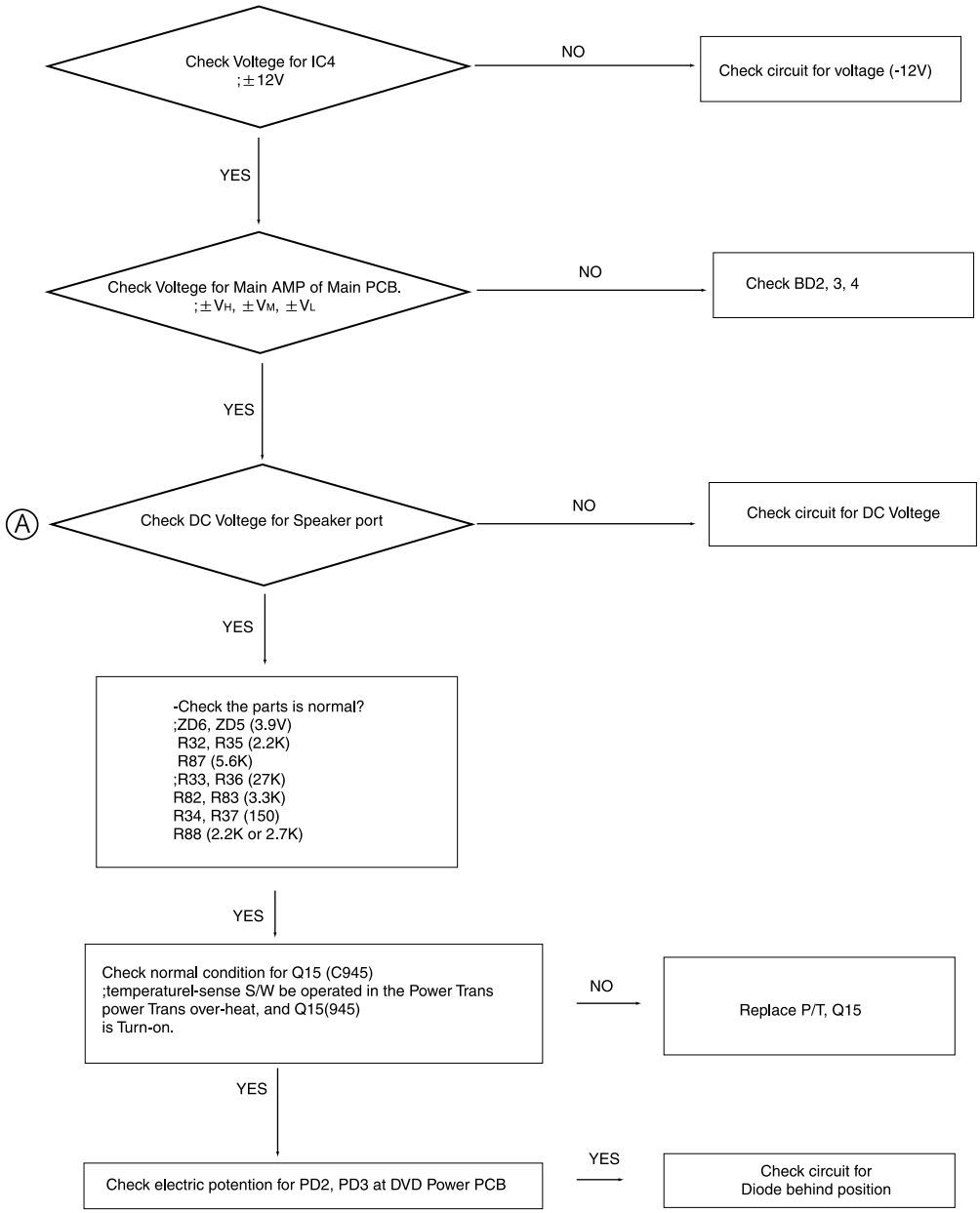


2. Output

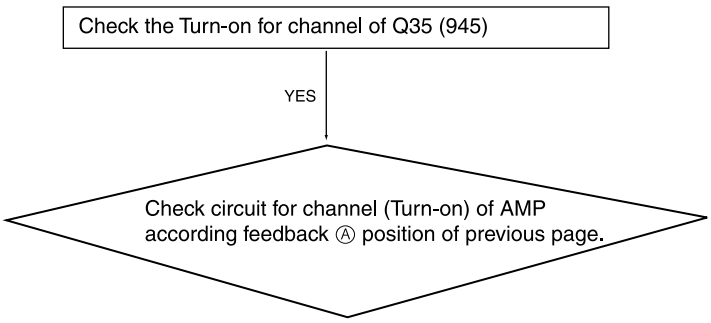

Check Voltage at Main PCB.
; ±VH, ±VM, ±VL
NO
-Check Connect for CW3.
-Check BD2, 3, 4
YES
Check Audio channel at cw5, CW6
for input ; 5.1 channel Audio Signal
NO
Check Voltage for CW6
; ±12V
YES
Check Voltage at Main PCB.
; ZD11. 12 (±15V)
NO
Check circuit for ZD11, 12.
(UZD15) and replace it.
YES
Check singal for L3 FR/FL/C/W/RL/RR
at MAIN PCB.
NO
Check circuit for AMP channel
;Out ports of IC5, 6, 7
-Referen to NEXT page
; Ⓐ position
YES
-Check Volteage for CW7 (SPK Relay)
;High (5V).
-Check Q4, Q5
NO
Check circuit for Speak Relay

3. Protection (When High Voltage at protection port)

3-1. In this case "LOW" for, Base port of Q12 (R2003 TR). at MAIN PCB



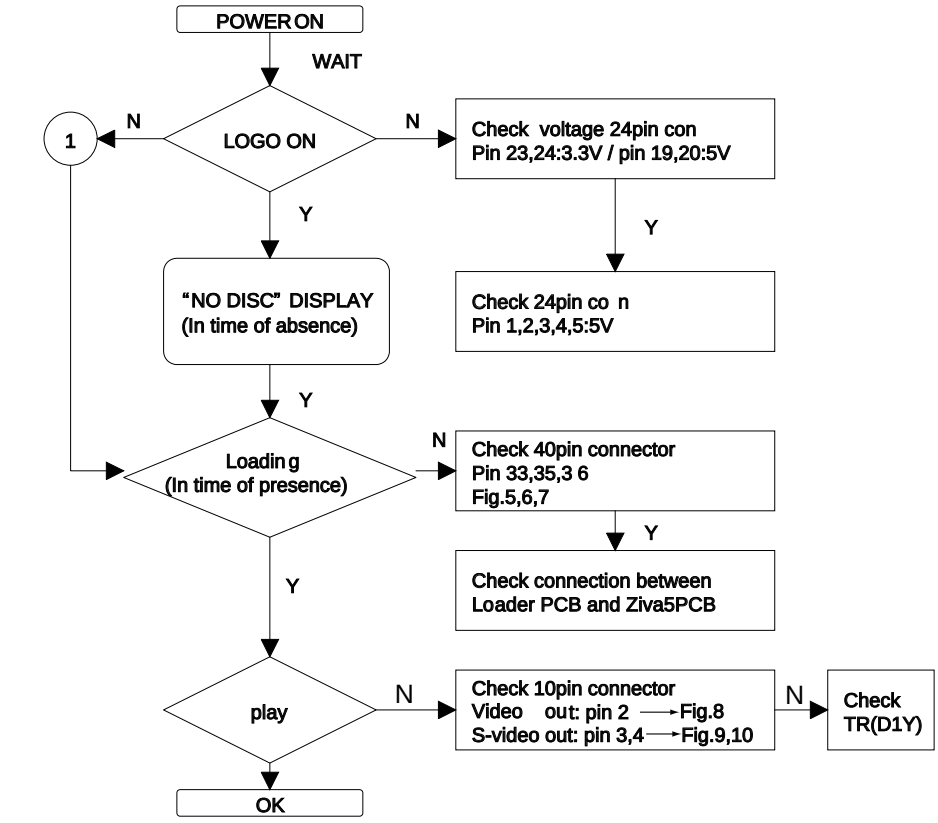
3-2. In this case "LOW" for Base port of Q13(A733) at Main PCB.


Check the Turn-on for channel of Q35 (945)
YES
Check circuit for channel (Turn-on) of AMP
according feedback Ⓐ position of previous page.

3-3. Check the Connector-Wire Ass'y Connect each PCB.
;DVD MECHA ↔ power (6p, pw4)
;DVD power PCB ↔ Main PCB (7p, FPC, pw5)
;Power Trans ↔ Main PCB (CW3)
;Power Trans ↔ DVD Power PCB (pw2)

9-2 ZIVA (DVD) PARTS

1.Initial operation after ON



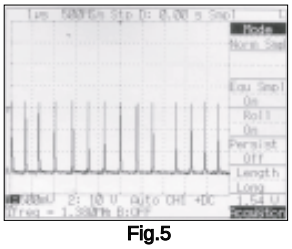


Fig.5

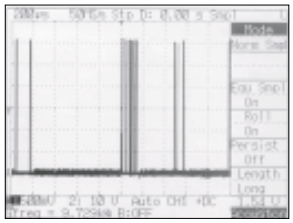


Fig.6

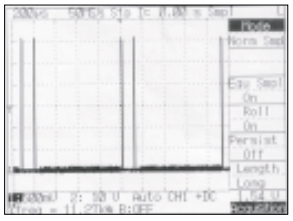


Fig.7

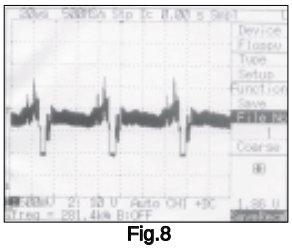


Fig.8

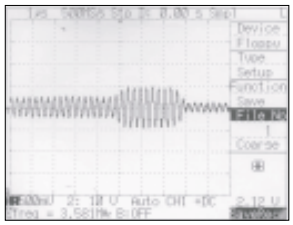


Fig.9

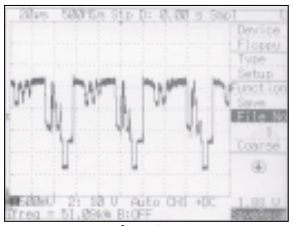
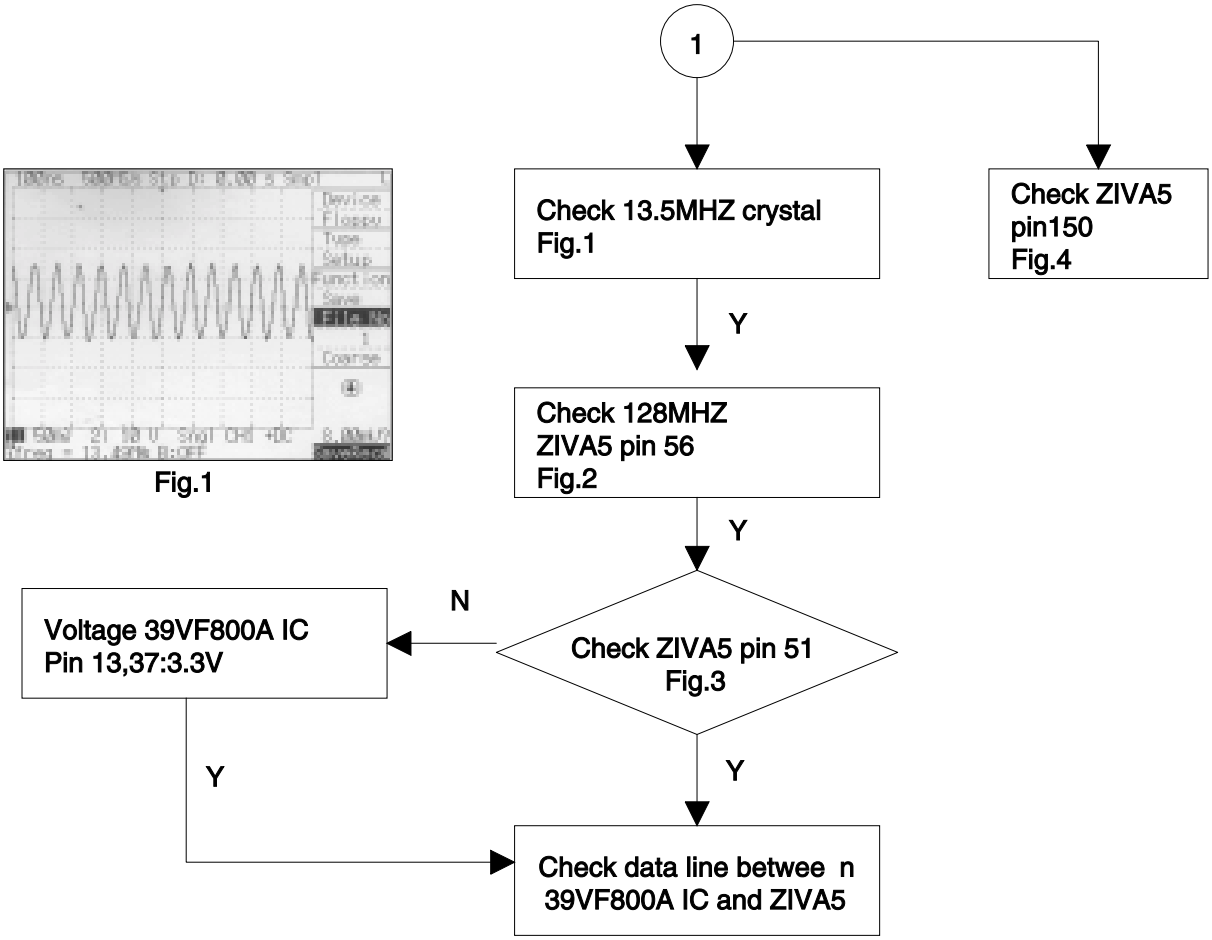


Fig.10

2. LOGO OPERATION

Fig.1



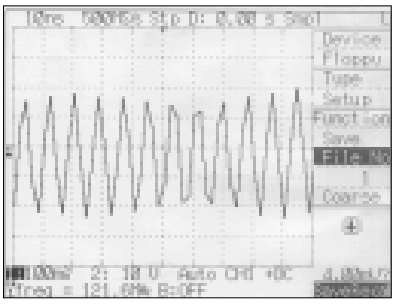


Fig.2

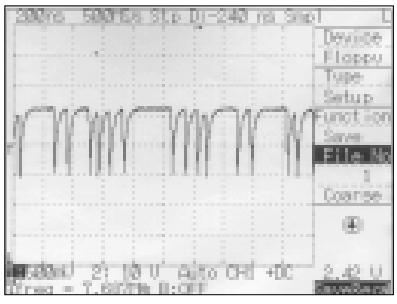


Fig.3

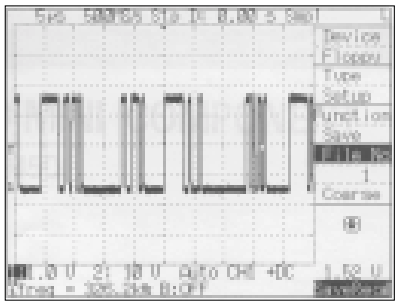
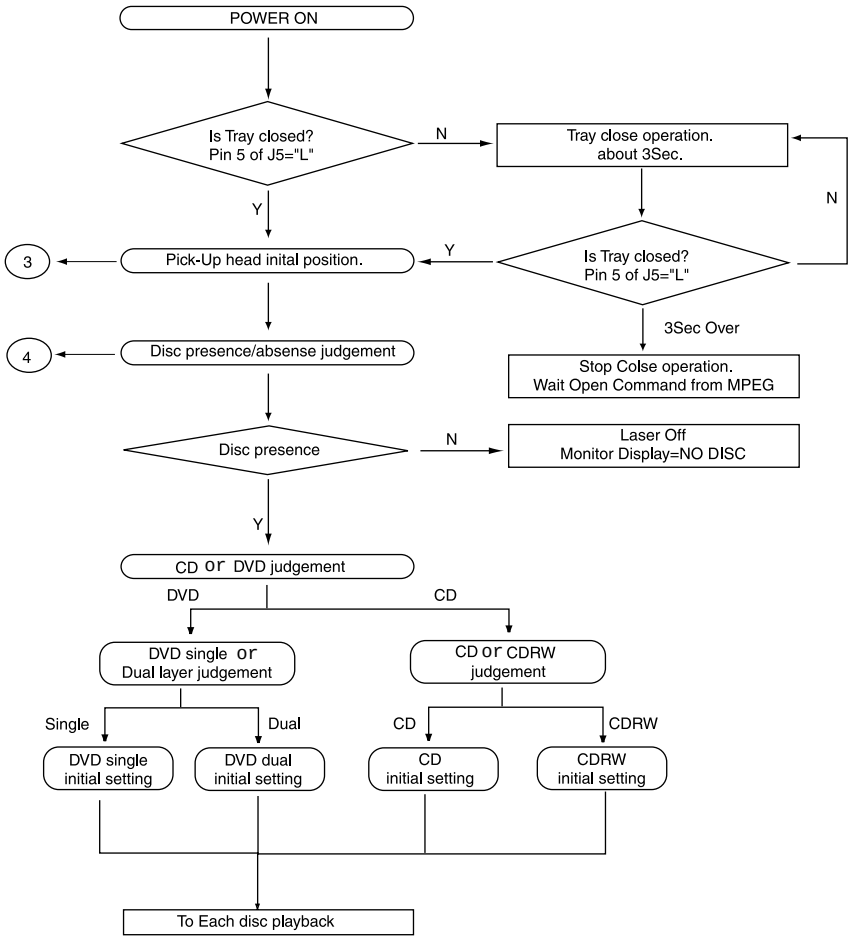
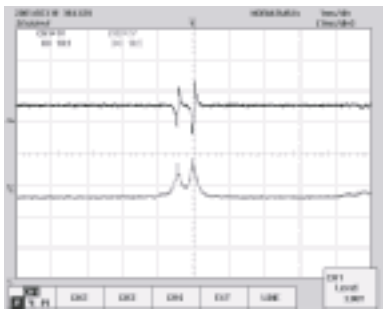


Fig.4

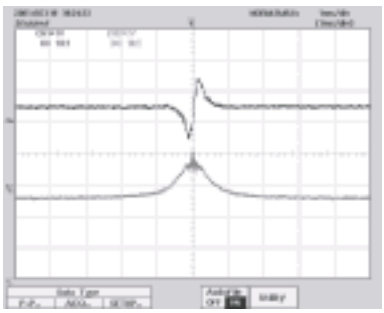
9-3 Loader(DVD) parts (version 1)

1. Initial operation after power ON



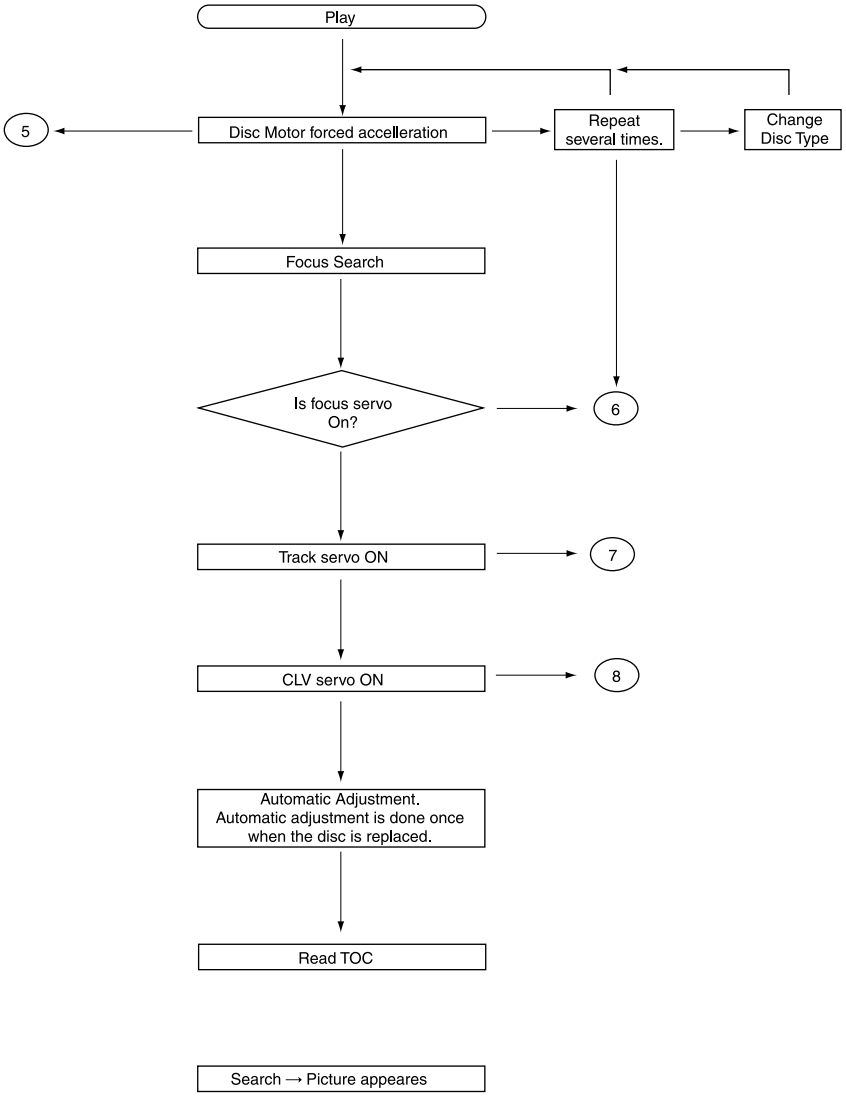


(DVD Dual)



(DVD Single)

2. Play Operation



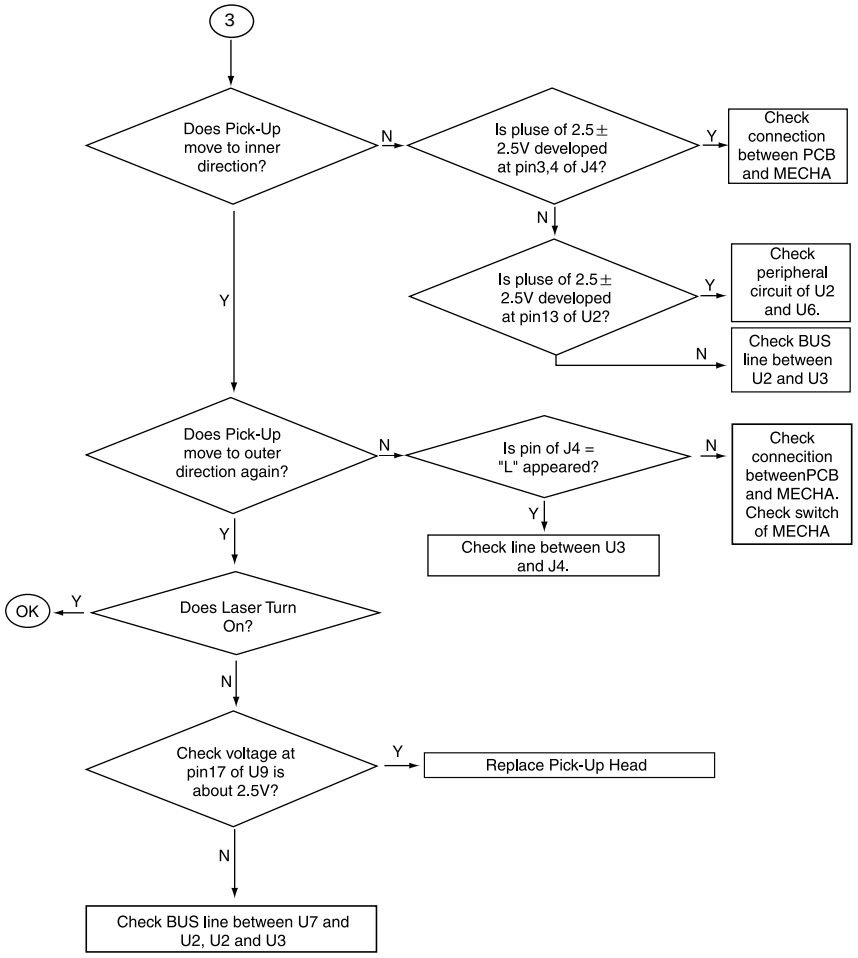
3. Pick-Up Head Initial Position

Pick-Up Head Initial Position

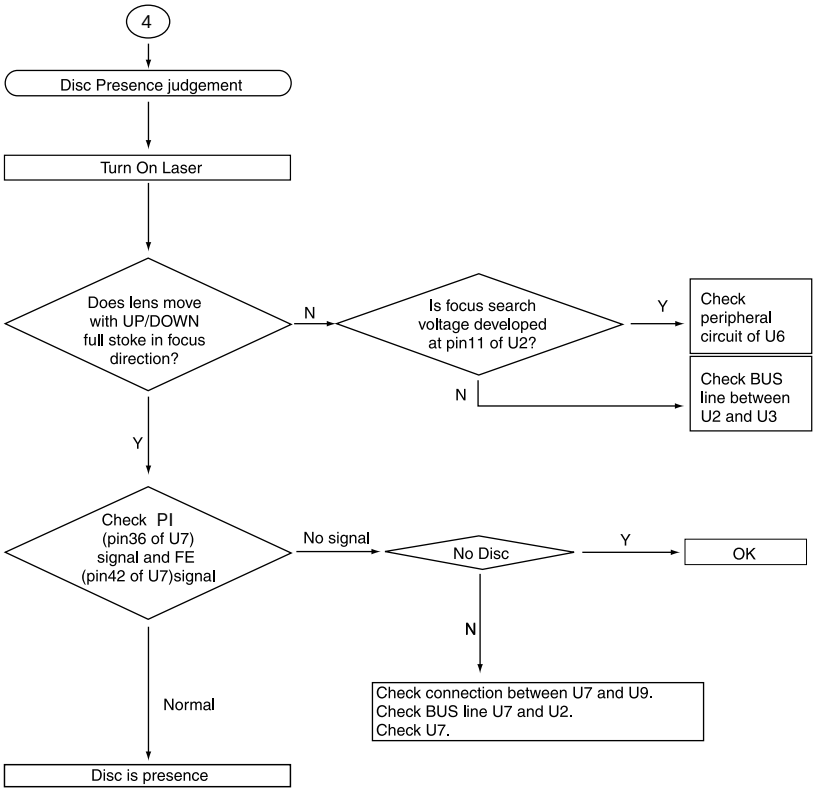
1.Move Pick-Up Head to inner direction until pin5 of J4 = "L"

2.If pin5 of J4 = "L", then move Pick-Up Head to outer direction for a short time.

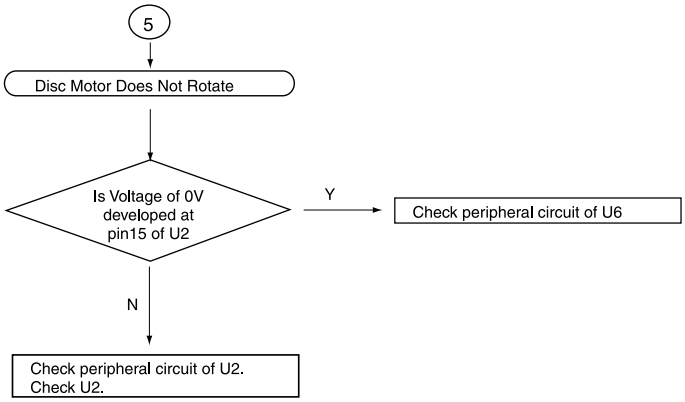
3.Turn On the Laser of Pick-Up Head to judge that disc is presence or not.



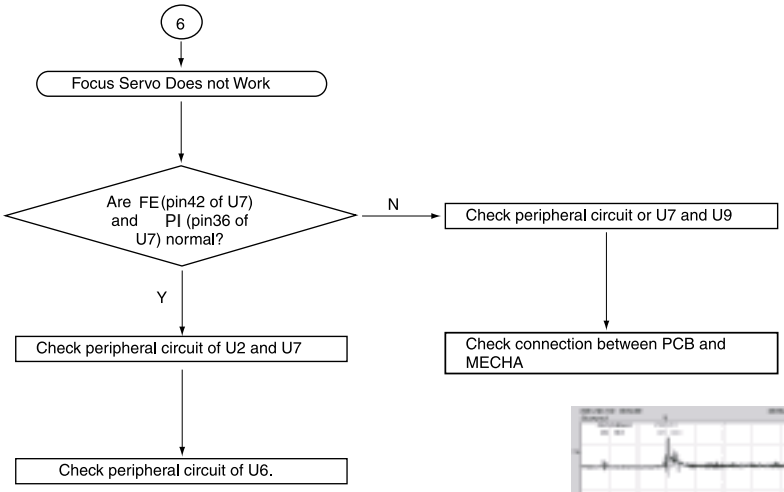
4. Disc Presence/Absense Judgment.



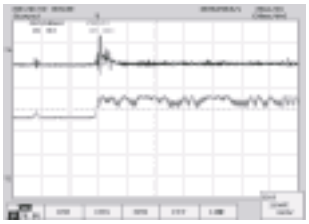
5.Disc Motor Does Not Rotate.

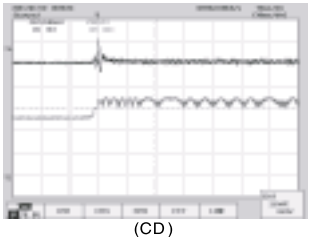


6.Focus Servo does not Work.

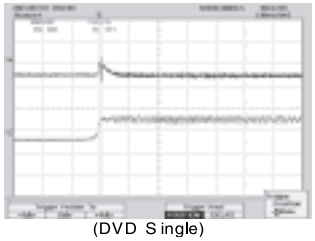

6
Focus Servo Does not Work
Are FE(pin42 of U7) and PI (pin36 of U7) normal?
N
Check peripheral circuit or U7 and U9
Y
Check peripheral circuit of U2 and U7
Check connection between PCB and MECHA
Check peripheral circuit of U6.

(CD-RW)

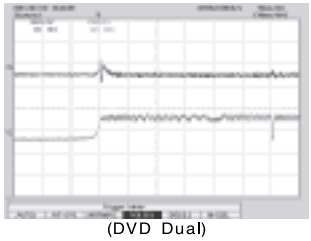




(CD)

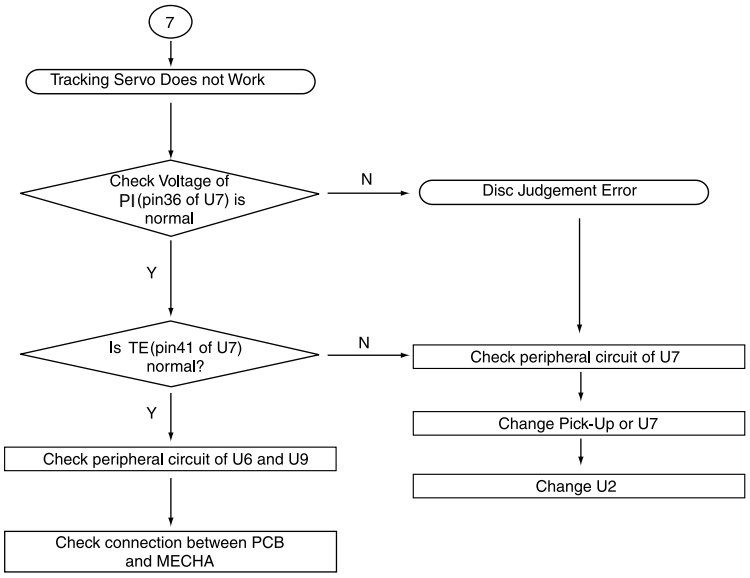


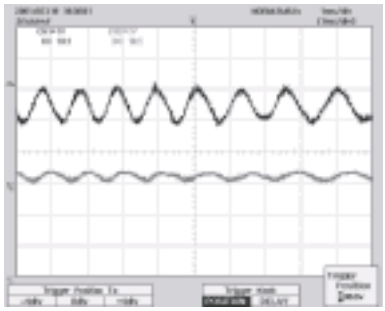
(DVD Single)



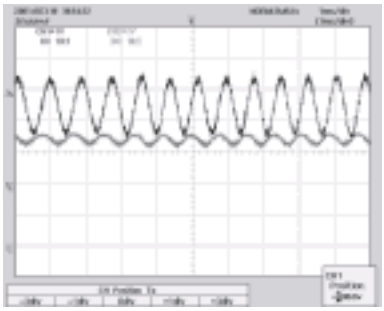
(DVD Dual)

7. Tracking Servo Does Not Work

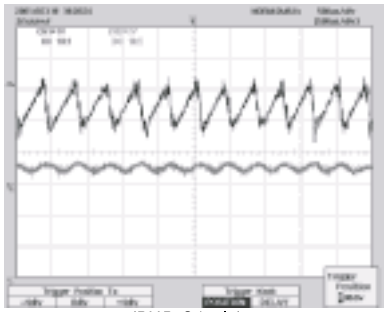




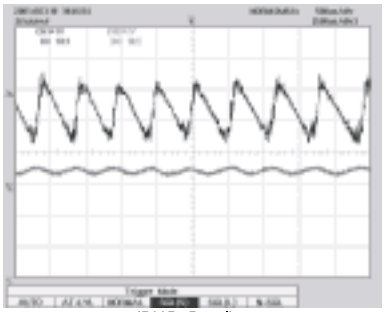
(CD)



(CD-RW)

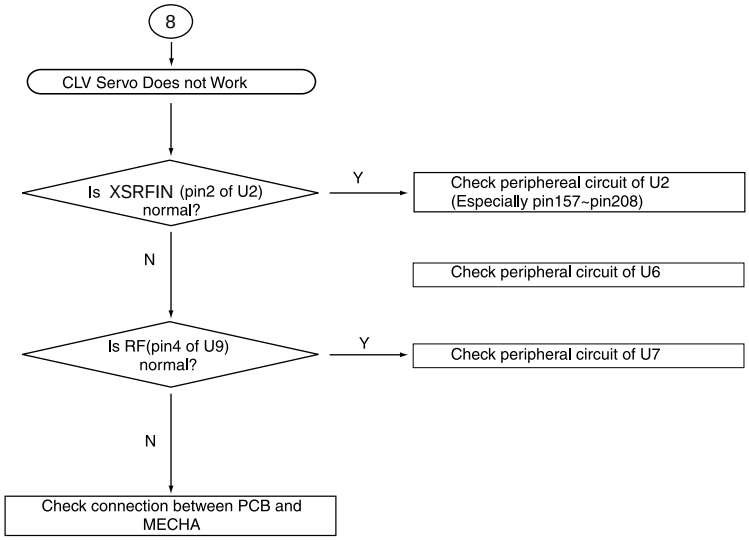


(DVD Single)



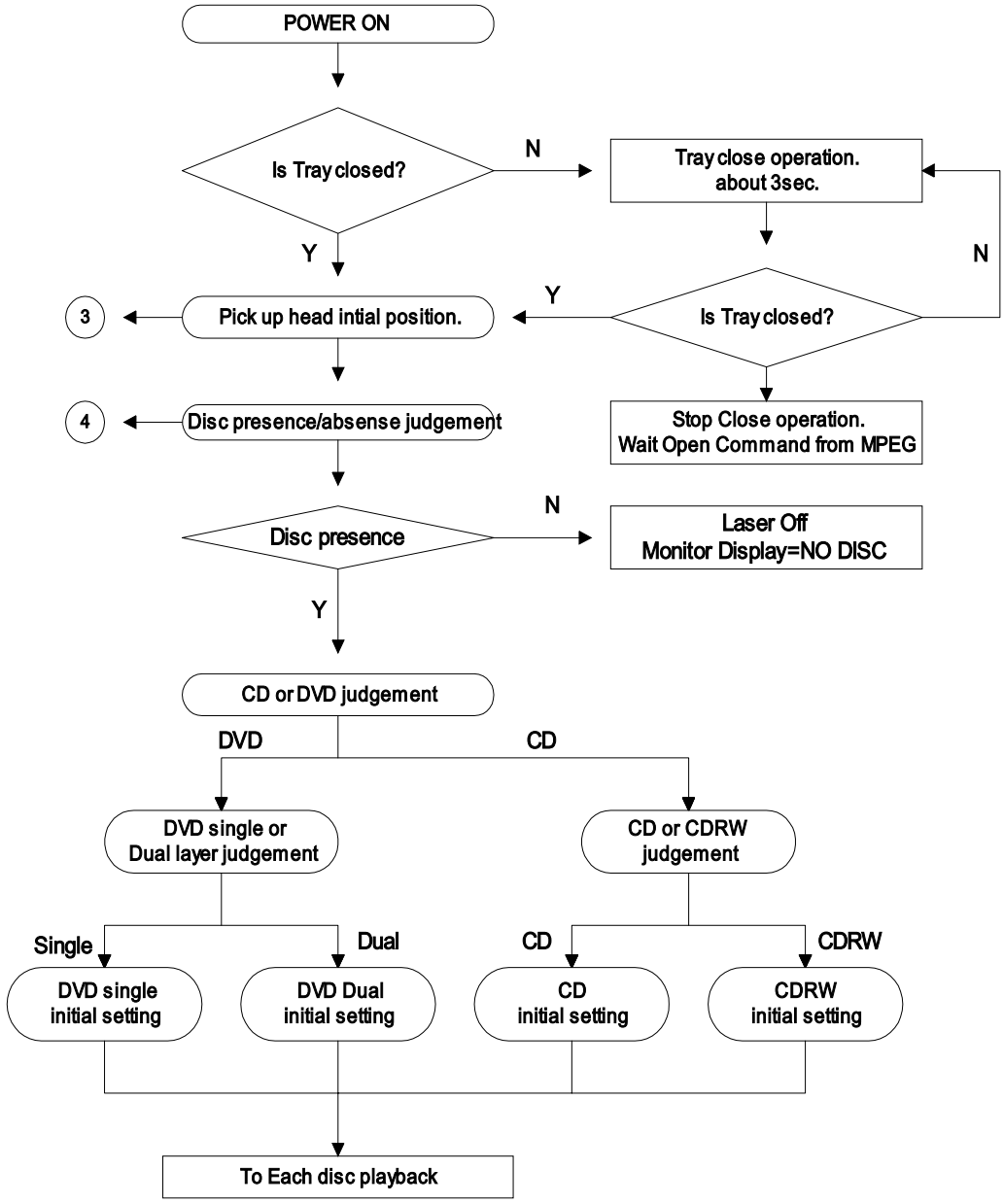
(DVD Dual)

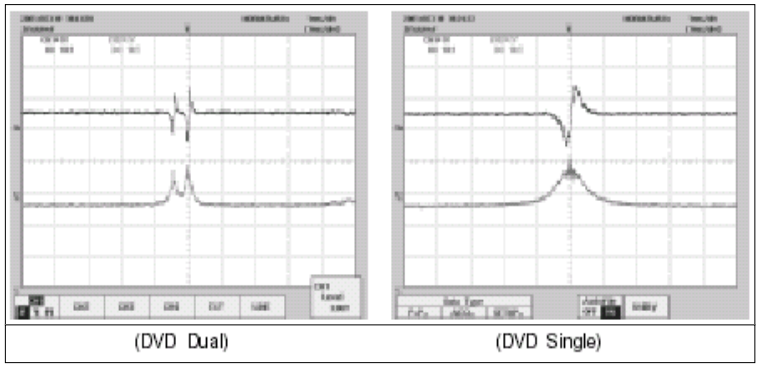
8.CLV Servo Does Not Work



9-4 Loader(DVD) parts (version 2)

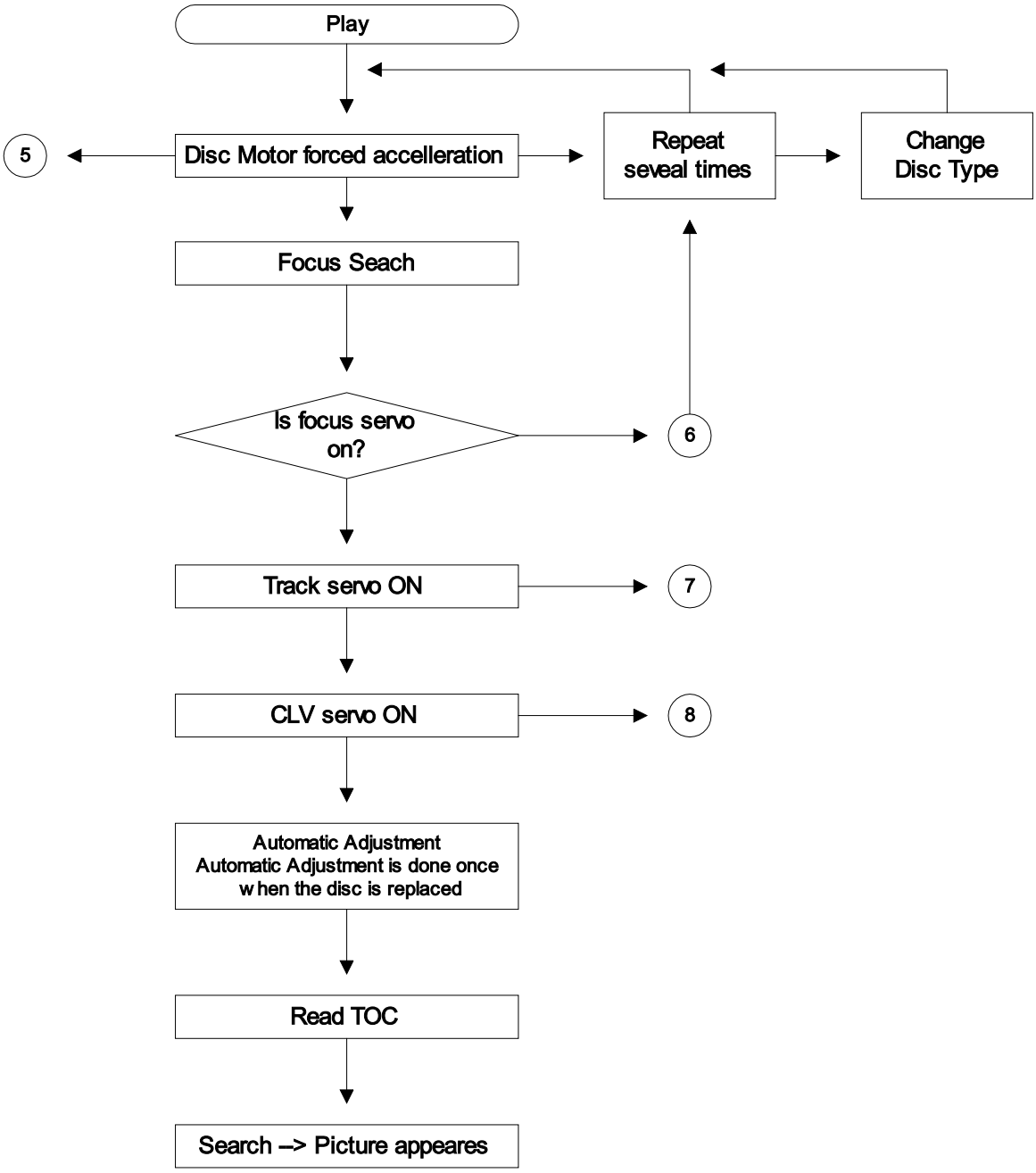
1. Initial operation after power ON





(DVD Dual) (DVD Single)

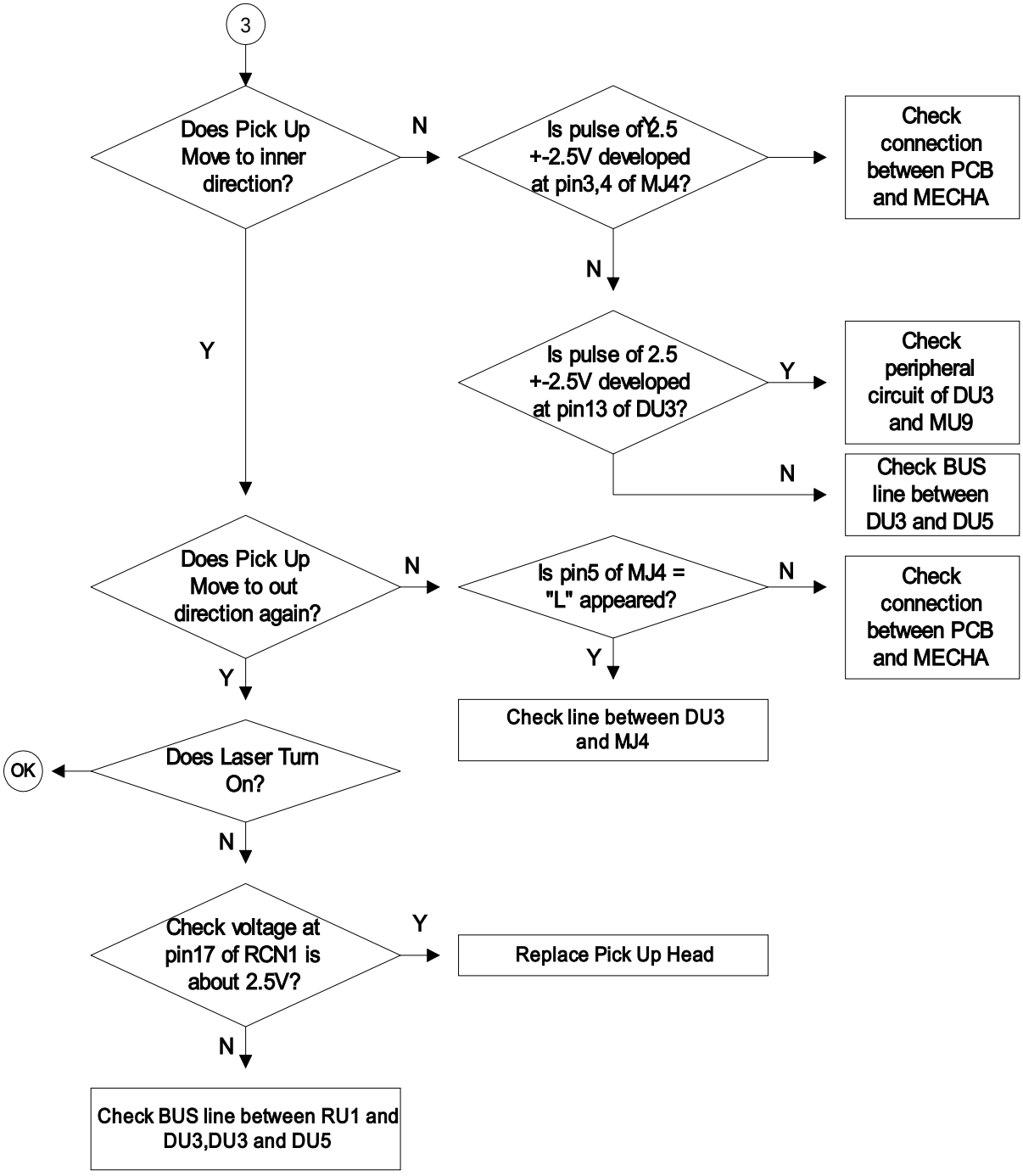
2. Play operation



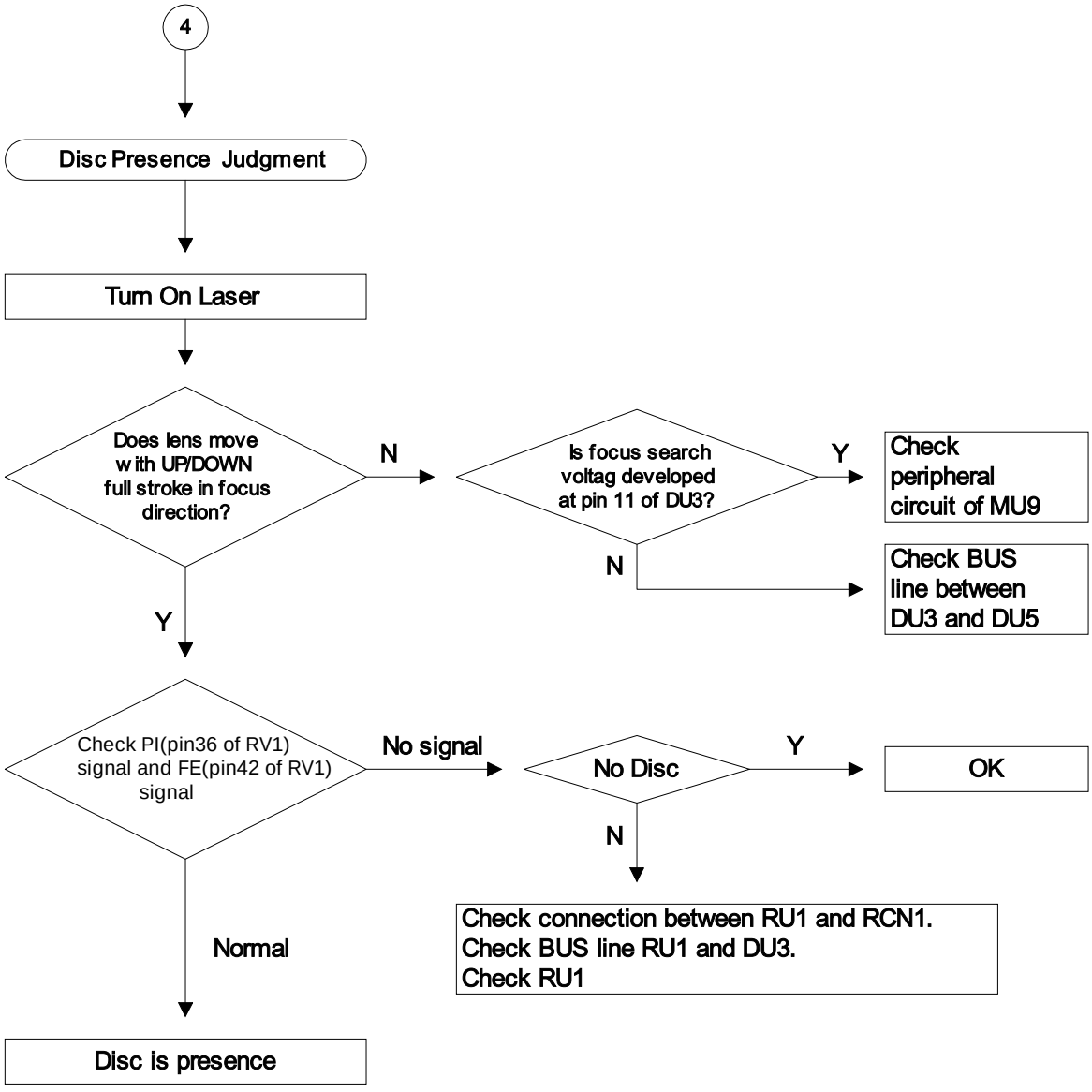
3. PickUp Head Initial Postion

PickUp Head Initial Postion

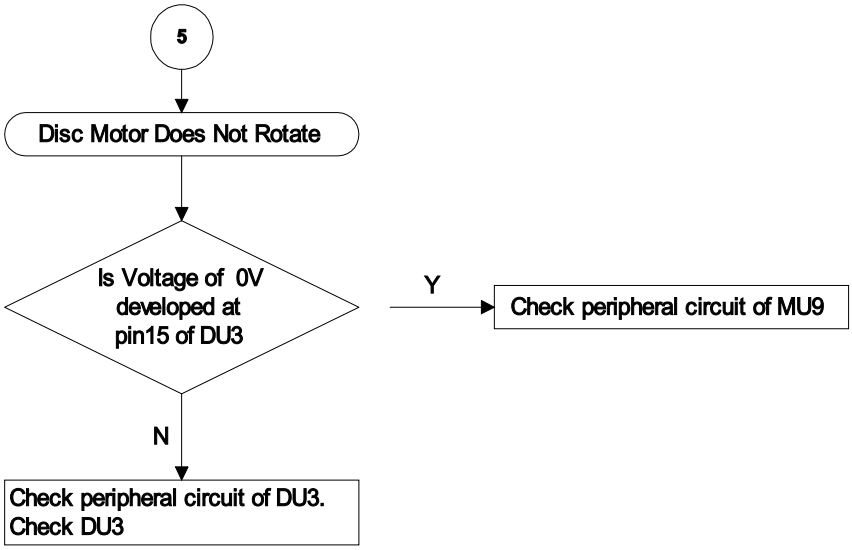
1. Move Pick Up Head to inner diretion until pin5 of MJ4="L"
2. If pin5 of MJ4="L", then move Pick Up Head to outer diretion for a short time.
3. Ture On the Laser of Pick Up Head to judge that disc is presence or not.


3
Does Pick Up Move to inner direction?
N
Is pulse of 2.5 +-2.5V developed at pin3,4 of MJ4?
Y
Check connection between PCB and MECHA
N
Y
Is pulse of 2.5 +-2.5V developed at pin13 of DU3?
Y
Check peripheral circuit of DU3 and MU9
N
Check BUS line between DU3 and DU5
Does Pick Up Move to out direction again?
N
Is pin5 of MJ4 = "L" appeared?
N
Check connection between PCB and MECHA
Y
Y
Check line between DU3 and MJ4
OK
Does Laser Turn On?
N
Check voltage at pin17 of RCN1 is about 2.5V?
Y
Replace Pick Up Head
N
Check BUS line between RU1 and DU3,DU3 and DU5

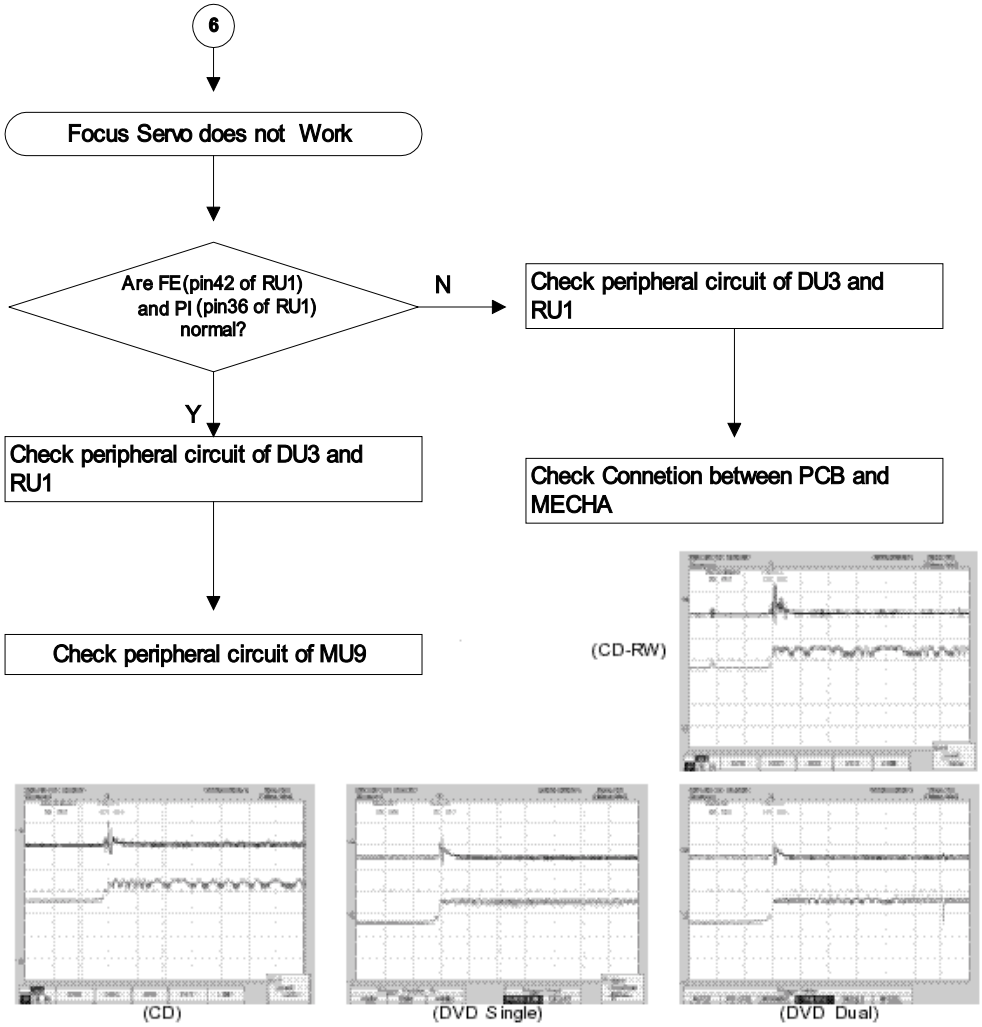
4. Disc Presence/Absense Judgment



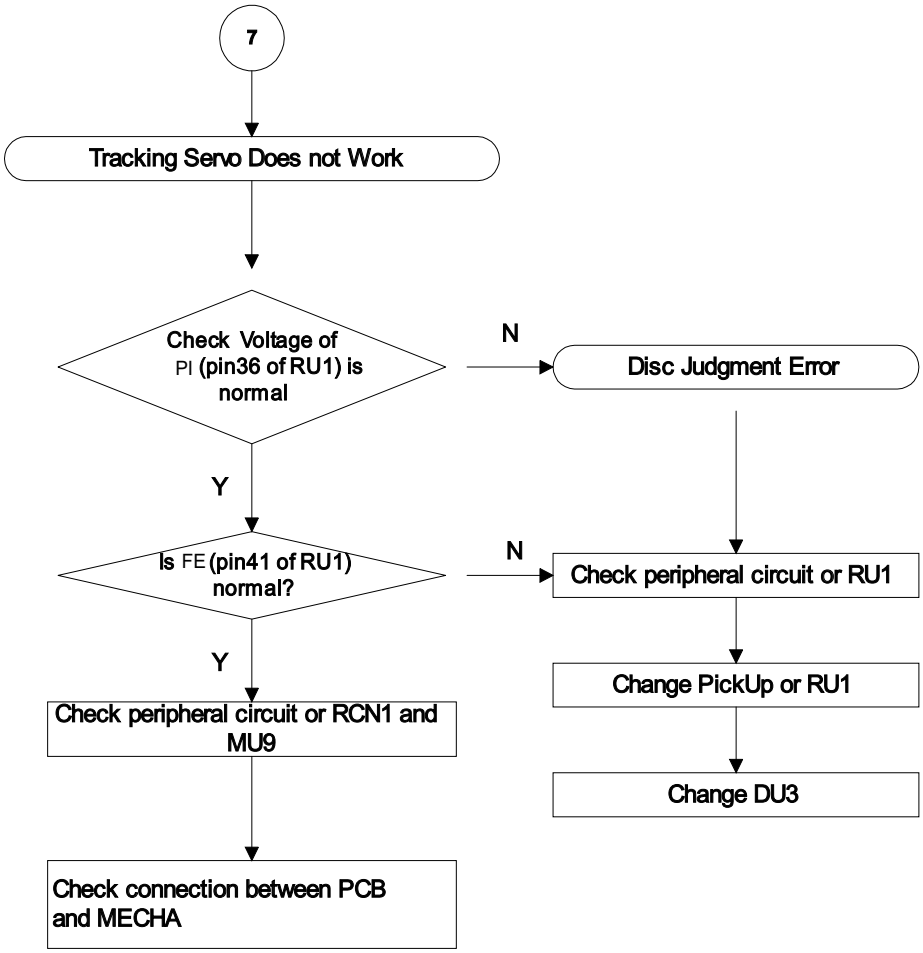
5. Disc Motor Does Not Rotate

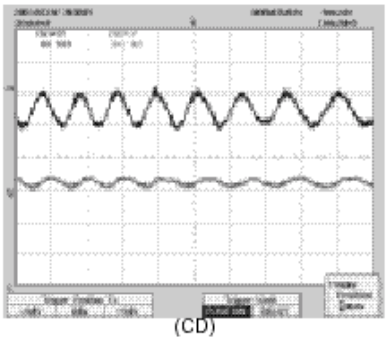

5
Disc Motor Does Not Rotate
Is Voltage of 0V developed at pin15 of DU3
Y
Check peripheral circuit of MU9
N
Check peripheral circuit of DU3. Check DU3

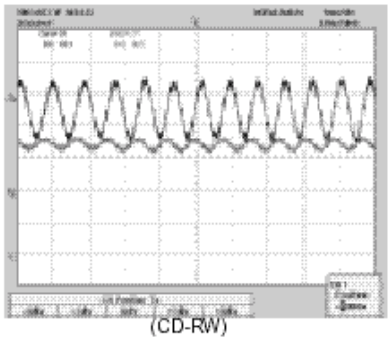
6. Focus Servo does not Work

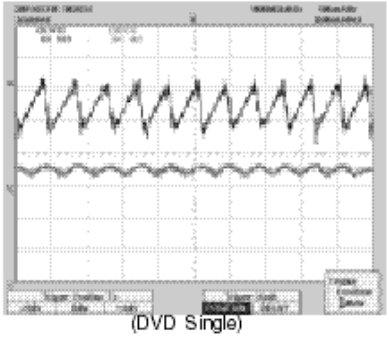


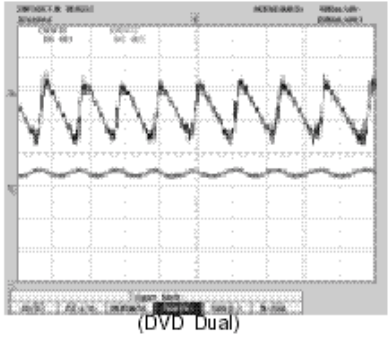
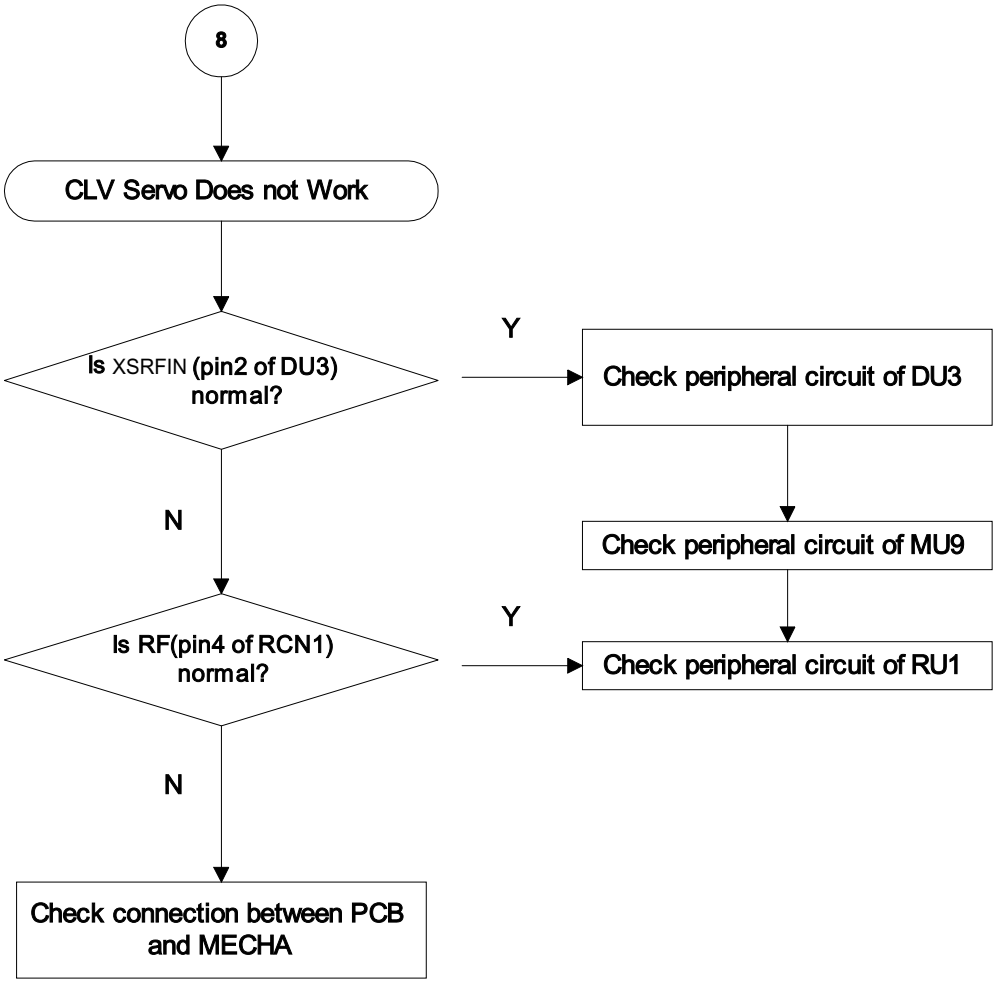
7. Tracking Servo Does Not Work




(CD)


(CD-RW)


(DVD Single)


(DVD Dual)

8. CLV Servo Does Not Work